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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/363,121	07/28/1999	BONG-WOO LEE	35399/DBP/Y3	7750
	590 12/31/2001			
CHRISTIE PARKER & HALE LLP			EXAMINER	
P O BOX 7068 PASADENA, O	CA 911097068		HAYNES, MACK NELSON	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 12/31/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

		ion No	Applicant(s)			
		on No.				
	09/363,1	21	LEE, BONG-WOO2			
Office Action Summary		r	Art Unit			
	Mack N. I		2879			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this c - If the period for reply specified above is less than thir - If NO period for reply is specified above, the maximu - Failure to reply within the set or extended period for r - Any reply received by the Office later than three mon earned patent term adjustment. See 37 CFR 1.704(b) Status	JNICATION. ions of 37 CFR 1.136(a). In no exommunication. ty (30) days, a reply within the starn statutory period will apply and vely will, by statute, cause the apths after the mailing date of this communication.	vent, however, may a reply be to atutory minimum of thirty (30) da will expire SIX (6) MONTHS fron plication to become ABANDON	imely filed bys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication (s) filed on <u>01 October 20</u>	<u>001</u> .				
2a) ☐ This action is FINAL.	2b)⊠ This action is					
3\\ Since this application is in cond	- more and the formal motters, prospection as to the merits is					
Disposition of Claims						
4)⊠ Claim(s) 1 and 2 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to).					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the price	rity documents have be	een received.				
2. Certified copies of the price	2. Certified copies of the priority documents have been received in Application No					
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revi 3) Information Disclosure Statement(s) (PTO-14	ew (PTO-948) 49) Paper No(s)	4) Interview Summ 5) Notice of Inform 6) Other:	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Response to Amendment

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuneta et al. (3,806,750) in view of Jang (5,366,758) and Kim (5,998,920).

With regards to claims 1-2, Figs. 1 and 3 as well as col. 2, line 23-col. 4, line 10 of Tsuneta et al. disclose a CRT that comprises the following: a panel (14 of Figs. 1 and 3) having a phosphor screen (15 of Fig. 3); a cylindrical neck (12 of Fig. 1) having an electron gun assembly (17 of Fig. 3) disposed therein; a funnel (13 of Fig. 1) that is formed between the panel and neck, and having a rectangular cone portion contiguous to the neck; and an inherent anode button.

Yet, Tsuneta et al. does not specifically discuss the concept of having an inner graphite layer that is disposed on an inner surface of the funnel to form a path for transmission of the voltage, wherein the inner graphite layer satisfies the following condition: 0.9 < Td / Th < 1.36 (for claim 1) or 0.9 < Td / Tv < 1.36 (for claim 2), where

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Td is an approximate thickness of the inner graphite layer on each inside corner of the cone portion, Th is an approximate thickness of the inner graphite layer disposed on inside horizontal walls of the cone portion, and Tv is an approximate thickness of the inner graphite layer disposed on inside vertical walls of the cone portion.

However, col. 1, lines 8-37 and col. 3, lines 1-6 of Jang discloses a CRT having a funnel with a graphite coating that is covered uniformly (wherein, the thickness ratios would be equal to "1", which is within the range claimed by the applicants) over the inner surface of the funnel for the purpose of providing the CRT with an inner conductive film between the screen portion and the electron gun; thus, enabling a high voltage to be applied through the conductive film in order to accelerate the electron beams to the screen from the electron gun.

More over, col. 2, lines 38-53 of Kim teaches that it would be desirable to have a graphite coating spread uniformly over the inner surface of a CRT for the purpose of insuring that the high voltage flows uniformly across the inside surface of the funnel and prevent any unwanted internal discharging.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to uniformly (wherein, the thickness of the coating at the corners is equal to the thickness of the coating on the vertical and horizontal walls) coat the inner surface of the funnel of Tsuneta et al., which includes the corners as well as vertical and horizontal walls for the purpose of providing the CRT of Tsuneta et al. with an inner conductive film from the electron gun to the screen portion which enables a

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high voltage to be applied uniformly across the funnel and accelerates the electron beams from the electron gun to the screen as taught by Jang and Kim.

Response to Arguments

Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mack N. Haynes whose telephone number is (703) 308-5460. The examiner can normally be reached on Mon-Fri., 9:00a.m.-5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mack N. Haynes

Examiner

Art Unit 2879

December 17, 2001

Vip Patel

Primary Examiner
Art Unit 2879